



A compact solution for retail

MasterColor CDM-TC T4 Elite

Philips MasterColor CDM Evolution 3000K Tubular Single-Ended T4 Lamp is the next evolution of MasterColor.

Benefits

- Color stability over life within $\pm 200\text{K}$
- Excellent color with 90 CRI (color rendering index)
- Color stability over life within $\pm 200\text{K}$
- Lamp-to-lamp color consistency over life
- High lamp efficacy (up to 112 LPW)
- Up to 33% better initial efficacy than existing MasterColor T4 lamps*
- 20,000 hours rated average life†
- 80% lumen maintenance at 15,000 hours
- * Based on a MasterColor Evolution 3000K Tubular Single-Ended T4 39W lamp with 4400 initial lumens vs. a CDM T4 35W lamp with 3,300 initial lumens.
- † Rated average life is the life obtained, on the average, from large representative groups of lamps in laboratory tests under controlled conditions at 10 or more operating hours per start. It is based on survival of at least 50% of the lamps and allows for individual lamps or groups of lamps to vary considerably from the average.

Features

- Universal operating position
- Dimensions, base and light center length are same as MasterColor and MasterColor Elite T4 lamps
- Features FadeBlock—an integrated UV blocking medium for reduced fading of fabrics and paintings
- Available in new 20W and 39W lamps

Application

- Ideal for retail display lighting and accent lighting

MasterColor CDM-TC T4 Elite

Versions



CDM-TC, 20W, /830

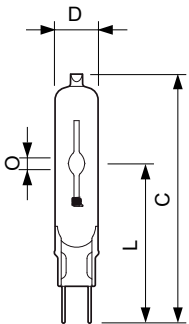
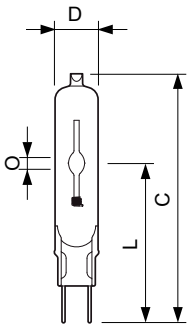


CDM-TC Elite 35W /930 /942



CDM-TC Elite 70W /930 /942

Dimensional drawing



Product	D (max)	O	L (min)	L (max)	L	C (max)
MASTERColor CDM-TC Elite 35W/930 G8.5	15 mm	4.8 mm	51 mm	53 mm	52 mm	85 mm
MASTERColor CDM-TC ELITE 70W/930 G8.5	15 mm	7.15 mm	51 mm	53 mm	52 mm	85 mm
MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	15 mm	7.15 mm	51 mm	53 mm	52 mm	85 mm

Product	D (max)	D	O	L (min)	L (max)	L	C (max)
CDM20/TC/830 Elite	15 mm	0.55 in	4 mm	51 mm	53 mm	52 mm	85 mm

MasterColor CDM-TC T4 Elite

Approval and Application

Energy Efficiency Label (EEL)	A+
Controls and Dimming	
Dimmable	No
Operating and Electrical	
Re-ignition Time (Min) (Max)	15 min
General Information	
Cap-Base	G8.5
Life To 10% Failures (Nom)	14000 h
Life To 20% Failures (Nom)	16000 h
Life To 50% Failures (Nom)	20000 h
Life To 5% Failures (Nom)	12000 h
Operating Position	UNIVERSAL
Light Technical	
Color Designation	Warm White (WW)
Mechanical and Housing	
Bulb Finish	Clear
Bulb Shape	T14

Approval and Application

Order Code	Full Product Name	Energy Consumption kWh/1000 h	Mercury (Hg) Content (Nom)
928183405115	CDM20/TC/830 Elite	22 kWh	3.5 mg
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	43 kWh	4.7 mg
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	80 kWh	6.6 mg
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	80 kWh	6.6 mg

Operating and Electrical (1/2)

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)
928183405115	CDM20/TC/830 Elite	100 V	90 V	95 V	20.0 W
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	90 V	80 V	85 V	-
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	90 V	80 V	85 V	-

Order Code	Full Product Name	Voltage (Max)	Voltage (Min)	Voltage (Nom)	Power (Rated) (Min)
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	90 V	80 V	85 V	-

Operating and Electrical (2/2)

Order Code	Full Product Name	Power (Rated) (Nom)
928183405115	CDM20/TC/830 Elite	20 W
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	39.0 W
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	73.0 W

Order Code	Full Product Name	Power (Rated) (Nom)
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	73.0 W

Luminaire Design Requirements

Order Code	Full Product Name	Bulb Temperature (Max)
928183405115	CDM20/TC/830 Elite	320 °C
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	500 °C
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	550 °C

Order Code	Full Product Name	Bulb Temperature (Max)
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	550 °C

Light Technical (1/2)

MasterColor CDM-TC T4 Elite

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Temperature (Nom)
928183405115	CDM20/TC/830 Elite	0.434	0.391	830	2980 K
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	0.435	0.396	930	3000 K
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	0.435	0.396	930	3000 K

Order Code	Full Product Name	Chromaticity	Chromaticity	Correlated Color	
		Coordinate X (Nom)	Coordinate Y (Nom)	Code	Temperature (Nom)
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	0.435	0.396	930	3000 K

Light Technical (2/2)

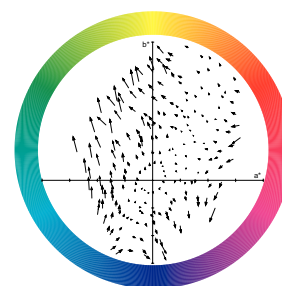
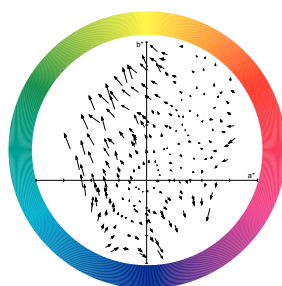
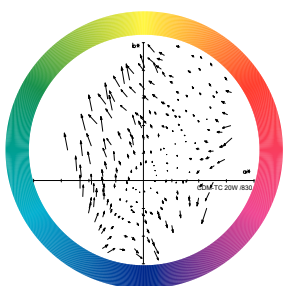
Order Code	Full Product Name	Color						Luminous		
		Color Rendering Index (Min)	Color Rendering Index (Nom)	Lumen Maintenance 10000 h (Nom)	Lumen Maintenance 12000 h (Nom)	Lumen Maintenance 2000 h (Nom)	Lumen Maintenance 5000 h (Nom)	Luminous Efficacy (rated) (Nom)	Flux (Rated) (Min)	Luminous Flux (Rated) (Nom)
928183405115	CDM20/TC/830 Elite	-	85	78 %	77 %	87 %	83 %	90 lm/W	1620 lm	1800 lm
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	87	90	80 %	78 %	93 %	88 %	102 lm/W	3600 lm	4000 lm
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	87	90	83 %	82 %	95 %	88 %	107 lm/W	-	7800 lm
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	87	90	83 %	82 %	95 %	88 %	107 lm/W	-	7800 lm

Mechanical and Housing

Order Code	Full Product Name	Bulb Material
928183405115	CDM20/TC/830 Elite	UV-Block Quartz
928189105115	MASTERColor CDM-TC Elite 35W/930 G8.5	-

Order Code	Full Product Name	Bulb Material
928189505115	MASTERColor CDM-TC ELITE 70W/930 G8.5	-
928189505131	MASTERColour CDM-TC Elite 70W/930 G8.5 1CT/12	-

Color Rendering Diagrams



LDCR_CDMTC-E_0002-Colour rendering diagram

MasterColor CDM-TC T4 Elite

